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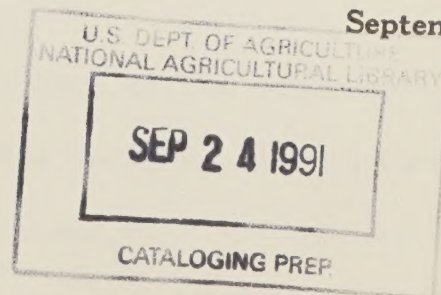
A CONTRIBUTION TO A BIBLIOGRAPHY OF THE DESCRIBED IMMATURE  
STAGES OF NORTH AMERICAN COLEOPTERA

by

J. S. Wade  
Cereal and Forage Insect Investigations,  
Bureau of Entomology and Plant Quarantine  
United States Department of Agriculture,  
Washington, D. C.

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STAGES OF NORTH AMERICAN COLEOPTERA

By

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It is the purpose in presentation of the following subject matter to render available to research workers in Coleoptera the references thus far accumulated by the compiler containing citations to technical descriptions, from certain series of publications between given periods of time, of the egg, larva, and pupa of the Coleoptera of America north of Mexico.

Care has been taken to provide that each reference includes the following information: Name of genus; name of species, where known; name of author of original description of adult insect; notation of the various stages of which description is cited, as, egg, larva, or pupa, and whether or not illustrations are included; biological data, where given, to be indicated by the word "biology"; name of author of additional description; periodical or other work in which description appears, with volume, page, and date. All references are arranged alphabetically, first by genera and then, under each genus, alphabetically by species, Leng's "Catalogue of the Coleoptera of America North of Mexico" being considered standard authority in all instances involving doubtful synonymy.

While this bibliography has occupied much of the compiler's spare time for several years, it should be particularly emphasized that in its present form it is merely preliminary, and that the gaps in the continuity of the various series studied are both large and numerous.







The compiler realizes how seriously these and other imperfections may detract from its completeness and usability as a work of reference. Absolute completeness in bibliography, however, is a goal which, at least on any subject such as this on which so much has been written, seems very nearly unattainable, and one must stop somewhere. Then, too, in view of the very considerable number of references that have accumulated, it has been felt by a number of interested associates that these should be made available in mimeograph form to other workers, as it was felt by them that its usefulness would outweigh its imperfections. As opportunity offers, it is the intention of the compiler to continue and to augment this bibliography.

At the beginning of the work an attempt was made also to include a list of host plants with an index thereto but, as these references accumulated, such serious difficulties arose relative to questions of plant synonymy, variations by the authors in the use of common and scientific names of plants, and most of all by limitations of space, that, on recommendation of the botanists of the U. S. Department of Agriculture, this portion of the work was discontinued.

So far as is now known, no work like this on the Coleoptera has been attempted since the publication, in 1891, of the paper by Wm. Beutenmuller entitled "Bibliographic Catalogue of the Described Transformations of North American Coleoptera" in the Journal of the New York Microscopical Society, Vol. 7, pages 1 to 52. It is intended that the present paper supplement and to a degree bring that work more nearly down to date. The present paper in arrangement also is somewhat in conformity to the general plan of that followed by Henry Edwards, entitled







"Bibliographical Catalogue of the Described Transformations of North American Lepidoptera", published in 1889 as U. S. National Museum Bulletin 35.

It is a pleasure to acknowledge indebtedness to Dr. A. G. Böving and to Dr. F. C. Craighead of the Bureau of Entomology and Plant Quarantine, U. S. Department of Agriculture, not only for the inspiration of their sympathetic interest in the various stages of the work but for numerous suggestions of value in connection with its scope and arrangement. Grateful acknowledgement also is gladly made of the valuable assistance rendered by the late Mrs. B. A. Hogan, also of the Bureau of Entomology and Plant Quarantine, in searching for, and in preparation of, original slips of many of the citations.







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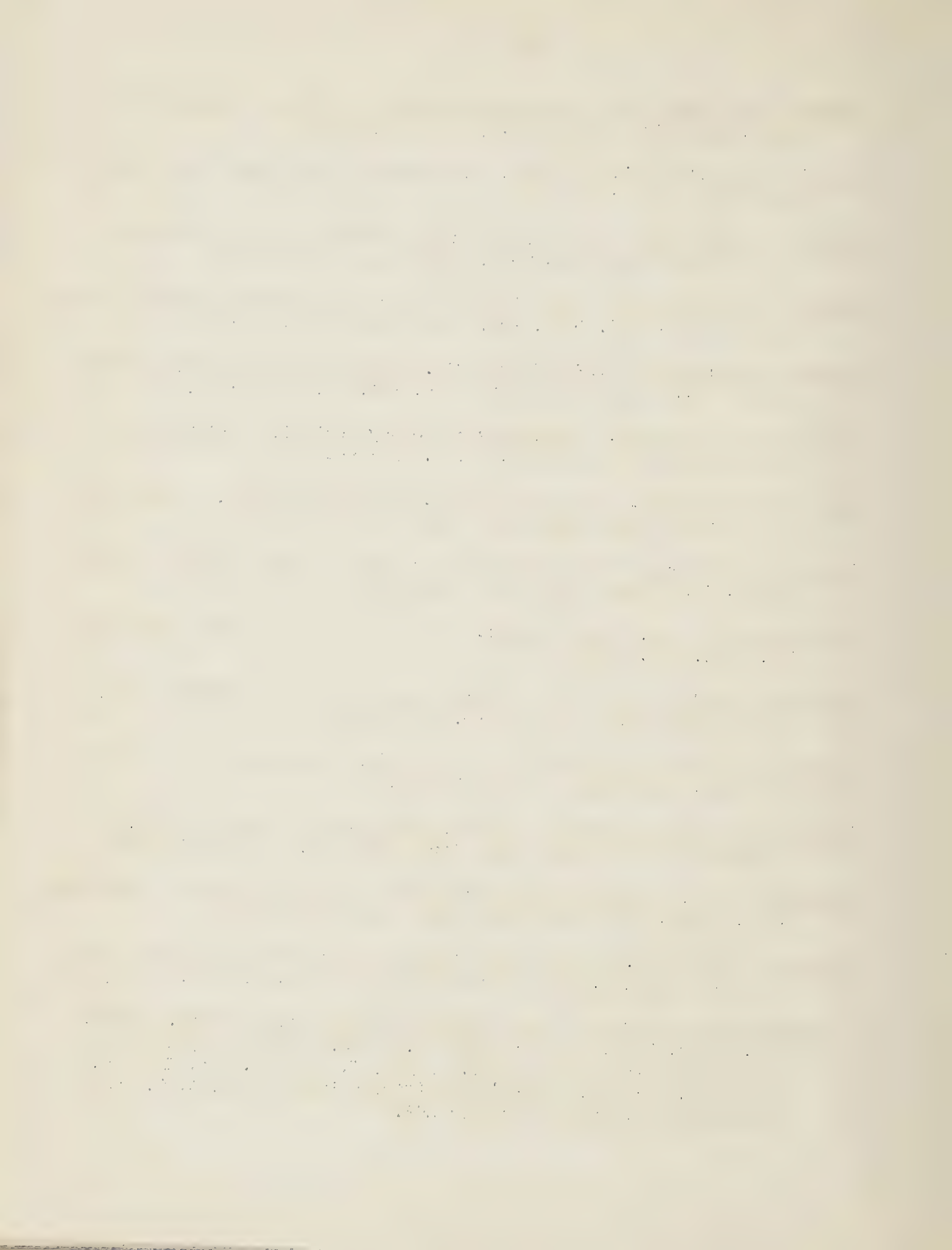
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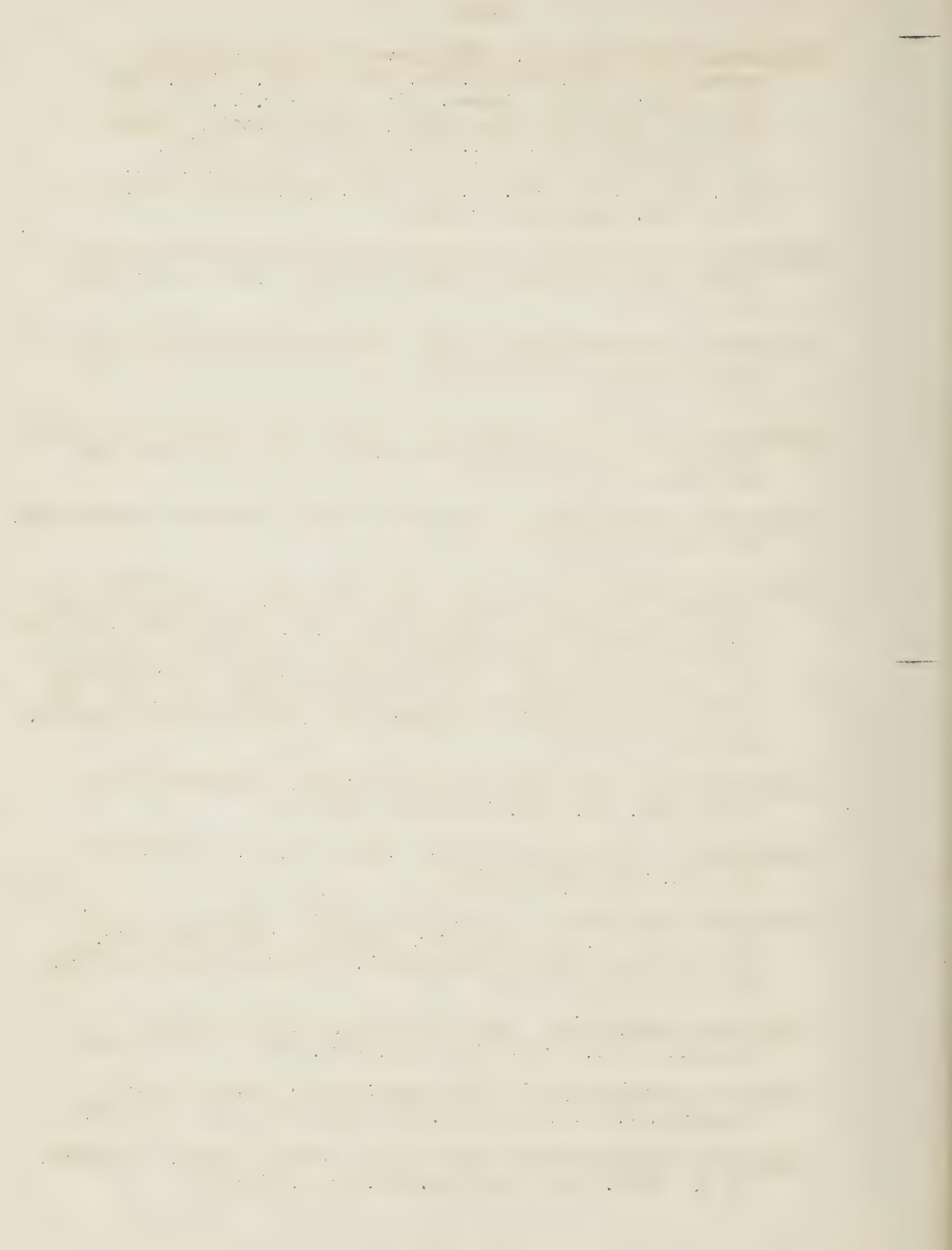


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